

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/11076

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> C12N15/09, C12N1/15, C12N1/19, C12N1/21, C12N5/10,  
C12Q1/02, C12Q1/68, A01K67/027, A61K35/30, A61P25/02,  
A61P43/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> C12N15/09, C12N1/15, C12N1/19, C12N1/21, C12N5/10,  
C12Q1/02, C12Q1/68, A01K67/027, A61K35/30, A61P25/02,  
A61P43/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

MEDLINE (STN), WPI (DIALOG), BIOSIS (DIALOG), JSTPlus (JOIS),  
GenBank/EMBL/DDBJ/GeneSeq, SwissProt/PIR/GeneSeq

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HIGASHIJIMA, S. et al., Visualization of cranial motor neurons in live transgenic zebrafish expressing green fluorescent protein under the control of the islet-1 promoter/enhancer., J.Neurosci. (2000), Vol.20, No.1, pages 206 to 218	1-12
A	CLEMENT, K. et al., A sib-pair analysis study of 15 candidate genes in French families with morbid obesity: indication for linkage with islet 1 locus on chromosome 5q., Diabetes. (1999), Vol.48, No.2, pages 398 to 402	1-12
A	GAY, F. et al., The LIM/homeodomain protein islet-1 modulates estrogen receptor functions., Mol. Endocrinol. (2000), Vol.14, No.10, pages 1627 to 1648	1-12

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:  
"A" document defining the general state of the art which is not considered to be of particular relevance  
"E" earlier document but published on or after the international filing date  
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  
"O" document referring to an oral disclosure, use, exhibition or other means  
"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  
"&" document member of the same patent family

Date of the actual completion of the international search  
02 December, 2003 (02.12.03)

Date of mailing of the international search report  
16 December, 2003 (16.12.03)

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WANG, M. et al., The LIM domain homeobox gene isl-1 is a positive regulator of islet cell-specific proglucagon gene transcription., J.Biol. Chem.(1995), Vol.270, No.21, pages 12646 to 12652	1-12
A	TANIZAWA, Y. et al., Isolation of the human LIM/homeodomain gene islet-1 and identification of a simple sequence repeat polymorphism [corrected], Diabetes.(1994), Vol.43, No.7, pages 935 to 941, Erratum in: Diabetes(1994), Vol.43, No.9, page 1171	1-12
A	NAKAGAWA, Y. et al., Combinatorial expression patterns of LIM-homeodomain and other regulatory genes parcellate developing thalamus., J.Neurosci.(2001), Vol.21, No.8, pages 2711 to 2725	1-12
A	WO 02/12498 A2 (GENAISSANCE PHARM INC.), 14 February, 2002 (14.02.02), Full text & AU 200181123 A	1-12

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## Box I Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 13

because they relate to subject matter not required to be searched by this Authority, namely:

The inventions as set forth in claim 13 pertains to methods for treatment of the human body by therapy and diagnostic methods and thus relate to a subject matter which this International Searching Authority is not required to search.

2. ☐ Claims Nos.:

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:

because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.